

MSDS No.: 265
Revision No.: 002
Revision Date: 04/12/02
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MATERIAL SAFETY DATA SHEET

Product name: CF 116-14 Grip Filler Foam

Description: Single component urethane resin system with liquefied gas propellant

Supplier: Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121

Emergency # (Chem-Trec.): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

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Ingredients: CAS Number: TLV: PEL: STEL	
Urethane prepolymer 98585-03-6 NE NE NE	
4,4' diphenylmethane diisocycanate (MDI) 00101-68-8 5 ppb C: 20 ppb NE	
Dimethyl ether 00115-10-6 NE NE NE	
1,1,1,2 tetrafluoroethane 00811-97-2 NE NE NE	

Abbreviations: PEL = OSHA Permissible Exposure Limit. **TLV** = ACGIH Threshold Limit Value. These are 8 hour time-weighted averages unless otherwise indicated by **"C"** (Ceiling) or **"STEL"** (Short Term Exposure Limit). **NE** = None Established. **NA** = Not Applicable.

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60 - A - B - B - C	1 2 1 1		
		A	25.00

Appearance: Yellowish liquid / foam Odor: Sweet ethereal odor 80 psi @ 68° F Vapor Density: (air = 1) > 1 (Polymer) Vapor Pressure: **Boiling Point:** Not determined VOC Content: 62 g/l **Evaporation Rate:** < .1 (ether = 1)Solubility in Water: Not soluble Specific Gravity: 1.12 pH: Not determined

FIRE AND EXPLOSION HAZARD DATA

Flash Point: < 0° F (propellants) Flammable Limits: LFL = 1.5%; UFL = 17%

Extinguishing Media: CO₂, Dry Chemical, Foam

Special Fire FightingWear full protective clothing. A self-contained breathing apparatus should be worn when fighting **Procedures:**Wear full protective clothing. A self-contained breathing apparatus should be worn when fighting procedures:

in the aerosol cans.

Unusual Fire and Explosion

Hazards:

Contents under pressure. Extremely flammable. Contains flammable propellants. Cans exposed to fire or direct heat can rupture from pressure build-up and be propelled through the air. See below for hazardous decomposition products.

REACTIVITY DATA

Stability: Reacts (i.e. expands at a ratio of > 40:1 to form a polyurethane foam) upon contact with air.

Contact with moisture or water will also cause material to polymerize (non-violently).

Hazardous Polymerization: Will not occur.

Incompatibility: Alcohols, strong bases, alkali metal compounds. Reacts with water (nonviolently).

Decomposition Products: When heated to temperatures above 450 C, thermal decomposition products can be released;

e.g. CO, CO₂, HCN, NO_X.

Conditions to Avoid: Excessive heat. Contact with air or moisture will cause foam to polymerize (cure).

HEALTH HAZARD DATA

Known Hazards:

Carcinogenicity:

Acute: Eye, skin, and respiratory irritation. Chronic: Sensitization.

Signs and Symptoms of Exposure: Eyes: Product reacts with moisture and can adhere to the cornea. Skin: Contact can cause irritation and sensitization. Inhalation: Vapor generated when heated to temperatures > 100° F can cause irritation of the breathing tract. Some individuals can develop an allergic (asthmatic-like) response. Should this occur, immediately move the fresh air. Those individuals who develop an allergic reaction should avoid future use of this product.

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Routes of Exposure: Dermal. Inhalation.

No ingredients are classified as a carcinogen by IARC, NTP or OSHA.

Medical Conditions Aggravated by Exposure: Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately flush with plenty of water. Call a physician if symptoms occur.

Skin: Adheres to skin; remove immediately with soap and warm water. If material has hardened, use

MC 400 Hand Cleaner or a light mineral oil. If unable to remove, try an abrasive containing hand

creme or buff off with a pumice stone.

Inhalation: Move victim to fresh air. Call a physician if symptoms persist.

Ingestion: If conscious, give plenty of water to drink. Do not induce vomiting unless directed by a physician.

Contact a physician immediately. Never give anything by mouth to an unconscious person.

Other: Referral to a physician is recommended if there is any question about the seriousness of the

injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation: General (natural or mechanically induced fresh air movements).

Eye Protection: Goggles recommended. Safety glasses with side shields as a minimum.

Skin Protection: Cotton gloves recommended. Avoid contact with the skin.

Respiratory Protection: Not normally required. If MDI concentrations exceed recommended levels, a supplied air

respirator is required.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and StoringDo not allow contact with eyes and skin. Material will adhere to the skin. For industrial use only. **Precautions:**Extremely flammable. Do not apply direct

heat to the cans. Before using, remove ignition sources such as flames or equipment/tools that generate sparks. Store in a cool dry place. Do not store in direct sunlight. Keep from freezing. Store between 41° and 77° F (5° to 25° C). Storage classifications: NFPA = Level 3; OSHA =

Class 1A.

Spill Procedures: Material will polymerize (cure) upon contact with air/moisture. Allow product to harden; then

remove for disposal. Material is non-hazardous once cured.

REGULATORY INFORMATION

Hazard Communication: This MSDS has been prepared in accordance with the federal OSHA Hazard Communication

Standard, 29 CFR 1910,1200.

HMIS Codes: Health 2, Flammability 3, Reactivity 1, PPE B (Goggles, Gloves)

DOT Shipping Name: Consumer Commodity, ORM-D

IATA / ICAO Shipping Name: Aerosols, flammable, Class 2.1, UN 1950

TSCA Inventory Status: Chemical components listed on TSCA inventory.

Took internet, Calabase Challed and Calabase Challed St. 1257 (Inventory).

SARA Title III, Section 313: This product contains 4-7% 4, 4' diphenylmethane diisocyanate (101-68-8) which is subject to

reporting under Section 313 of SARA Title III (40 CFR Part 372).

EPA Waste Code(s): D001, D003

Waste Disposal Methods: Consult with regulatory agencies or your corporate personnel for disposal methods that comply

with local, state, and federal safety, health and environmental regulations.

CONTACTS

Customer Service: 1 800 879 8000 **Technical Service:** 1 800 879 8000

Health / Safety: 1 800 879 6000 Jerry Metcalf (x6704)

Emergency # (Chem-Trec): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.